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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/054,436	01/18/2002	George R. Walgrove III	H10192/DPS	5449

1333 7590 05/16/2006

PATENT LEGAL STAFF  
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EXAMINER
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MILIA, MARK R

ART UNIT	PAPER NUMBER
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2625

DATE MAILED: 05/16/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

10/054,436

Applicant(s)

WALGROVE ET AL.

Examiner

Mark R. Milia

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 06 March 2006.
- 2a) ☒ This action is **FINAL**.                      2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-30 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-30 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

## **DETAILED ACTION**

### ***Response to Amendment***

1. Applicant's amendment was received on 2/3/06 and 3/6/06 and has been entered and made of record. Currently, claims 1-30 are pending.

### ***Drawings***

2. Applicant's amendment to the specification to insert reference to element "204" has overcome the objection as cited in the previous Office Action. Therefore the objection has been withdrawn.

### ***Claim Rejections - 35 USC § 112***

3. Applicant's amendment to claim one to replace "computer" with "processor" has overcome the rejection as cited in the previous Office Action. Therefore the rejection has been withdrawn.

***Response to Arguments***

4. Applicant's arguments filed 2/3/06 have been fully considered but they are not persuasive.

In response to applicant's arguments regarding the rejection of claims 1-30, more specifically independent claims 1, 6, 12, 13, 20, and 29, wherein on pages 11-13, the applicant asserts that the reference of Pitts does not disclose "enabling or disabling said detack charger in response to a sheet weight or paper fed". The examiner respectfully disagrees as Pitts does disclose such a feature. Particularly, Pitts discloses a detack corotron 16 that is used to detach the sheet from the surface of the photoreceptor (see column 3 lines 10-12). Pitts further states that a control system 30 can independently operate the detack corotron 16 to obtain the desired electrical properties during the transfer process (see column 4 lines 32-35). Therefore, based on the sheet weight of paper being fed to the system, the control system 30 would operate or enable detack corotron 16 appropriately. Pitts also states that a transfer zone has both an AC and DC bias and that the biases are used to assist in "detacking" the sheet from the surface of the photoreceptor. Thus, it can be seen that based on the weight of a sheet of paper, the control system 30 enables the detack corotron 16, which is analogous to the current claim language and therefore anticipates the claim. The applicant also states that an AC power supply is used to enable/disable the detack charger. However, the current claim language does not explicitly state the type of power supply being utilized and therefore Pitts discloses the invention as currently outlined in the claims.

Therefore, the rejection of claims 1-30, as cited in the previous Office Action, is maintained and repeated in this Office Action.

***Claim Rejections - 35 USC § 102***

5. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

6. Claims 1, 6, 13, 16, 18-22, 24, 29, and 30 rejected under 35 U.S.C. 102(e) as being anticipated by U.S. Patent No. 6345168 to Pitts.

Regarding claims 1 and 20, Pitts discloses a printing apparatus having a detack charging system, comprising: a processor (see Fig. 1 "30"), and a detack charger operatively connected to said processor (see Fig. 1 "16", column 3 lines 1-3 and 10-12, and column 4 lines 29-35), wherein a programmed signal from said computer enables or disables said detack charger in response to a sheet weight of a sheet of paper fed into said printing apparatus (see column 4 lines 29-35 and 48-65, reference shows that a DC bias, which controls the detack charging system, can be varied depending on the weight of a sheet of paper by a control system, which is analogous to the claim limitation and is therefore anticipated by the reference).

Regarding claim 6, Pitts discloses a printing machine having a detack charging system, comprising: a computer (see Fig. 1 "30", a computer by definition is anything that can compute and therefore the control system of the reference is a computer as it controls the transfer and detack corotrons), and a detack charger operatively connected

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to said computer (see Fig. 1 "16", column 3 lines 1-3 and 10-12, and column 4 lines 29-35), wherein a programmed signal from said computer enables or disables said detack charger in response to an attribute of a sheet of paper fed into said printing machine (see column 4 lines 29-35 and 48-65, reference shows that a DC bias, which controls the detack charging system, can be varied depending on the weight of a sheet of paper by a control system, which is analogous to the claim limitation and is therefore anticipated by the reference).

Regarding claim 13, Pitts discloses a method of detack charging in an image-forming machine, comprising: receiving a sheet a paper from a feeder (see Fig. 1 "12" and column 2 lines 55-58), said sheet of paper having a sheet weight (see column 4 lines 48-55, it is inherent that every sheet of paper has an associated weight), configuring an interface to receive a sheet weight limit (see column 4 lines 37-65, reference shows a user interface "32" that can be used to input paper weights related to a plurality of paper supply trays), generating an enable signal from a central processing unit (CPU) (see Fig. 1 "30") when said sheet weight is less than or equal to said sheet weight limit and enabling a detack charger (see column 4 lines 29-65, reference states that lighter papers benefit from the variation in DC bias, which is enabling of a detack charger, reference also states that a user can input the weights of different stocks in different paper supplies and when the sheet is fed to the system the weight would be determined and mapped to an initial bias voltage which would in turn affect the behavior of the bias voltage during transfer dependent on the weight of the paper), and generating a disable signal from said CPU when said sheet weight is greater than said

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sheet weight limit and disabling said detack charger (see column 4 lines 29-65, reference states that heavier paper do not require a variation in DC bias, which is a disabling of a detack charger).

Regarding claim 29, Pitts discloses a method of detack charging in an image-forming machine, comprising: receiving a receiver sheet from a feeder (see Fig. 1 "12" and column 2 lines 55-58), said receiver sheet having a sheet weight (see column 4 lines 48-55, it is inherent that every sheet of paper has an associated weight), configuring an interface to receive a sheet weight limit (see column 4 lines 37-65, reference shows a user interface "32" that can be used to input paper weights related to a plurality of paper supply trays), and controlling said detack charger in response to a programmed signal from a central processing unit (CPU) based on said sheet weight limit (see column 4 lines 29-35 and 48-65, reference shows that a DC bias, which controls the detack charging system, can be varied depending on the weight of a sheet of paper by a control system, which is analogous to the claim limitation and is therefore anticipated by the reference).

Regarding claim 16, Pitts discloses the system discussed in claim 13, and further discloses connecting said CPU to said detack charger for receiving an enabled and disable signal (see Fig. 1 and column 4 lines 29-65).

Regarding claim 18, Pitts discloses the system discussed in claim 13, and further discloses configuring said interface to enable said detack charger for a specific sheet of paper in a specific feeder (see Fig. 1 and column 4 lines 29-65).

Regarding claim 19, Pitts discloses the system discussed in claim 13, and further discloses configuring said interface to enable said detack charger for all sheets of paper in a specific feeder (see Fig. 1 and column 4 lines 29-65).

Regarding claim 21, Pitts discloses the system discussed in claim 20, and further discloses wherein said receiver sheet is a sheet of paper (see column 2 lines 55-58 and column 4 lines 48-55).

Regarding claim 22, Pitts discloses the system discussed in claim 20, and further discloses wherein said receiver sheet is a transparency (see column 4 lines 61-65).

Regarding claim 24, Pitts discloses the system discussed in claim 20, and further discloses wherein said programmed signal from said processor, comprises a signal to enable or disable said detack charger (see column 3 line 61-column 4 line 35).

Regarding claim 30, Pitts discloses the system discussed in claim 29, and further discloses generating an enable signal from said CPU when said sheet weight is less than or equal to said sheet weight limit and enabling said detack charger (see column 4 lines 29-65), and generating a disable signal from said CPU when said sheet weight is greater than said sheet weight limit and disabling said detack charger (see column 4 lines 29-65).

### ***Claim Rejections - 35 USC § 103***

7. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.



8. Claims 11 and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Pitts in view of U.S. Patent No. 6504556 to Myers.

Regarding claim 11, Pitts discloses a printing machine having a detack charging system, comprising: a feeder to store sheets of paper, said sheets of paper comprising at least one sheet having a sheet weight (see Fig. 1 "12", column 2 lines 55-60, and column 4 lines 48-55, it is inherent that every sheet of paper has an associated weight), an interface having an input device, said interface configured for receiving a sheet weight limit (see Fig. 1 "32" and column 4 lines 29-65), allowing a user to selectively detack said at least one sheet (see column 4 lines 29-65), and a marking engine comprising a central processing unit (CPU) (see Fig. 1 "10" and "30"), a detack charger (see Fig. 1 "16"), said marking engine operatively connected to receive at least one sheet from said feeder (see Fig. 1 and column 2 lines 55-64), said CPU operatively connected to receive said sheet weight limit from said interface, and said detack charger operatively connected to receive a first and a second signal from said CPU (see column 3 line 61-column 4 line 65), where said CPU provides said first signal when said sheet weight of said at least one sheet is less than or equal to said inputted sheet weight limit, and said detack charger is enabled in response to said first signal (see column 4 lines 29-65, reference states that lighter papers benefit from the variation in DC bias, which is enabling of a detack charger, reference also states that a user can input the weights of different stocks in different paper supplies and when the sheet is fed to the system the weight would be determined and mapped to an initial bias voltage which would in turn affect the behavior of the bias voltage during transfer dependent on

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the weight of the paper), and where said CPU provides said second signal when said sheet weight of said at least one sheet is greater than said inputted sheet weight limit, and said detack charger is disabled in response to said first signal (see column 4 lines 29-65, reference states that heavier paper do not require a variation in DC bias, which is a disabling of a detack charger).

Pitts does not disclose expressly an interface having a display, said interface further configured to access a menu system having a catalog of sheet attributes of said at least one sheet.

Myers discloses an interface having an input device and a display, said interface configured for receiving a sheet weight limit, said interface further configured to access a menu system having a catalog of sheet attributes of said at least one sheet, (see Figs. 4-6 and column 4 lines 1-60), and a marking engine comprising a central processing unit (CPU), having a memory to store said sheet weight limit and a detack charger, said marking engine operatively connected to receive at least one sheet from said feeder, said CPU operatively connected to receive said sheet weight limit from said interface, and said detack charger operatively connected to receive a first and a second signal from said CPU (see Figs. 4-6 and 9, column 2 lines 6-34, column 4 line 39-column 5 line 15, and column 7 lines 40-48 and 53-54).

Regarding claim 12, Pitts discloses a method of detack charging in an image-forming machine, comprising receiving a sheet a paper from a feeder (see Fig. 1 and column 2 lines 55-58), said sheet of paper having a sheet weight (see column 4 lines 48-55, it is inherent that every sheet of paper has an associated weight), configuring an

interface to receive a sheet weight limit (see column 4 lines 37-65), storing said sheet weight limit in a memory of a central processing unit (CPU) (see column 4 lines 37-65), allowing a user to selectively detach said sheet of paper (see column 4 lines 29-65), connecting said CPU to a detach charger for receiving an enable and disable signal (see Fig. 1 and column 4 lines 29-65), generating said enable signal from said CPU when said sheet weight is less than or equal to said sheet weight limit and enabling said detach charger (see column 4 lines 29-65, reference states that lighter papers benefit from the variation in DC bias, which is enabling of a detach charger, reference also states that a user can input the weights of different stocks in different paper supplies and when the sheet is fed to the system the weight would be determined and mapped to an initial bias voltage which would in turn affect the behavior of the bias voltage during transfer dependent on the weight of the paper), and generating said disable signal from said CPU when said sheet weight is greater than said sheet weight limit and disabling said detach charger (see column 4 lines 29-65, reference states that heavier paper do not require a variation in DC bias, which is a disabling of a detach charger).

Pitts does not expressly disclose configuring said interface to access a menu system, said menu system having a catalog of sheet attributes of said sheet of paper.

Myers discloses configuring said interface to access a menu system, said menu system having a catalog of sheet attributes of said sheet of paper (see Figs. 4-6 and column 4 lines 1-60).

Pitts & Myers are combinable because they are from the same field of endeavor, utilization of paper stock attributes to effectively transfer and detach the paper stock.

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to combine the use of a user interface with a display to configure a plurality of paper stock attributes and to store such a configuration in memory to be utilized by the printing system with the system of Pitts.

The suggestion/motivation for doing so would have been to provide enhanced efficiency through designation of paper stock attributes to increase the speed at which transferring and imaging can take place.

Therefore, it would have been obvious to combine Myers with Pitts to obtain the invention as specified in claims 11 and 12.

9. Claims 2-5, 7-10, 14, 15, 17, and 25-28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Pitts as applied to claims 1, 6, 13, and 20 above, and further in view of Myers.

Regarding claims 2, 7, and 25, Pitts discloses a feeder to store sheets of paper, said sheets of paper comprising at least one sheet having a sheet weight (see Fig. 1 "12" and column 2 lines 55-60, and column 4 lines 48-55), and an interface having an input device (see Fig. 1 "32") and a display, said interface configured for receiving an inputted sheet weight limit (see column 4 lines 29-65), said interface further configured to access a menu system having a catalog of sheet attributes of said at least one sheet, allowing a user to selectively enable said detach charger for said at least one sheet (see column 4 lines 29-65).

Pitts does not disclose expressly an interface having a display, said interface further configured to access a menu system having a catalog of sheet attributes of said at least one sheet.

Myers discloses a feeder to store sheets of paper, said sheets of paper comprising at least one sheet having a sheet weight (see Figs. 1, 2, 5, 6, and 9), and an interface having an input device and a display (see Fig. 9), said interface configured for receiving an inputted sheet weight limit, said interface further configured to access a menu system having a catalog of sheet attributes of said at least one sheet (see Figs. 4-6 and column 4 lines 1-60).

Regarding claims 3, 8, and 26, Pitts discloses a marking engine comprising a central processing unit (CPU) having a memory to store said sheet weight limit (see Fig. 1 "10" and "30"), said marking engine operatively connected to said feeder to receive said at least one sheet from said feeder (see Fig. 1 "12"), said CPU operatively connected to said interface to receive said sheet weight limit from said interface (see Fig. 1 "30" and column 4 lines 29-65), and said detach charger operatively connected to receive said programmed signal from said CPU (see Fig. 1 "16" and column 4 lines 29-65).

Regarding claims 4 and 27, Pitts discloses wherein said programmed signal enables said detach charger when said sheet weight of said at least one sheet is less than or equal to said sheet weight limit (see column 4 lines 29-65).

Regarding claims 5 and 28, Pitts discloses wherein said programmed signal disables said detack charger when said sheet weight of said at least one sheet is greater than said sheet weight limit (see column 4 lines 29-65).

Regarding claim 9, Pitts discloses wherein said programmed signal enables said detack charger when said inputted attribute matches a "detack" attribute of said at least one sheet (see column 4 line 15-column 5 line 15).

Regarding claim 10, Pitts discloses wherein said programmed signal disables said detack charger when said inputted attribute matches a "no detack" attribute of said at least one sheet (see column 4 line 15-column 5 line 15).

Regarding claim 14, Myers discloses storing said sheet weight limit in a memory of said CPU (see Fig. 6 and column 4 lines 1-60).

Regarding claim 15, Myers discloses configuring said interface to access a menu system, said menu system having a catalog of sheet attributes of said sheet of paper (see Figs. 4-6 and column 4 lines 1-60).

Regarding claim 17, Pitts discloses configuring said interface to enable said detack charger for a specific sheet of paper (see column 4 lines 29-65).

Pitts & Myers are combinable because they are from the same field of endeavor, utilization of paper stock attributes to effectively transfer and detack the paper stock.

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to combine the use of a user interface with a display to configure a plurality of paper stock attributes and to store such a configuration in memory to be utilized by the printing system with the system of Pitts.

The suggestion/motivation for doing so would have been to provide enhanced efficiency through designation of paper stock attributes to increase the speed at which transferring and imaging can take place.

Therefore, it would have been obvious to combine Myers with Pitts to obtain the invention as specified in claims 2-5, 7-10, 14, 15, 17, and 25-28.

10. Claim 23 is rejected under 35 U.S.C. 103(a) as being unpatentable over Pitts as applied to claim 20 above, and further in view of U.S. Patent No. 5257097 to Pineau et al. as cited on the Information Disclosure Statement dated 5/22/03.

Pitts discloses wherein sheets to be printed upon can be coated paper of transparencies (see column 4 lines 61-65).

Pitts does not disclose expressly wherein said receiver sheet is a tabloid.

Pineau discloses wherein said receiver sheet is a tabloid (see column 2 lines 55-56).

Pitts & Pineau are combinable because they are from the same field of endeavor, printing documents.

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to combine the use of a tabloid as a paper stock option with the system of Pitts.

The suggestion/motivation for doing so would have been to provide more options for paper stock, (as mentioned by Pitts in column 4 lines 61-65) and increased efficiency for determining a particular type of stock.

Therefore, it would have been obvious to combine Pineau with Pitts to obtain the invention as specified in claim 23.

### ***Conclusion***

11. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mark R. Milia whose telephone number is (571) 272-7408. The examiner can normally be reached M-F 8:00am-4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Twyler M. Lamb can be reached at (571) 272-7406. The fax number for the organization where this application or proceeding is assigned is 571-273-8300.

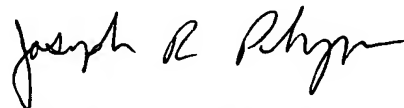


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Mark R. Milia  
Examiner  
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MRM

  
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